

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P894607

Luminaire Tested: 8TMB-14HL-LVR-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-LVR-UNV-L840
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

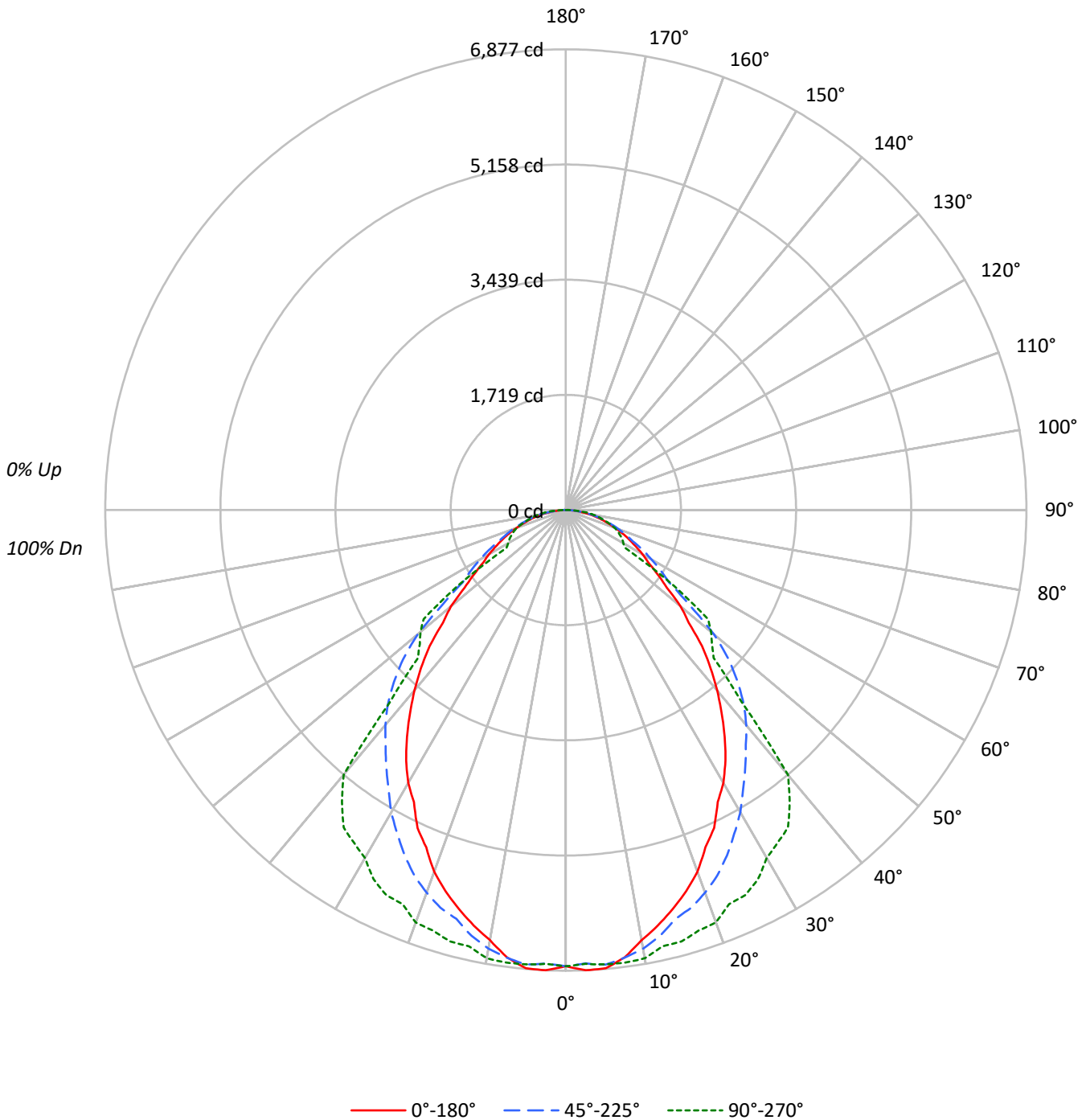
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14256.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20										
RC	80					70					50					30					10					0					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																															
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100													
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75													
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65													
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57													
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50													
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45													
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40													
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36													
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33													
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24165	24165	24165
5°	24457	24264	24250
10°	23493	23954	24480
15°	22651	23210	24495
20°	21698	22951	24741
25°	20500	22278	24830
30°	19266	21347	24576
35°	17916	20247	25055
40°	16277	19408	23892
45°	14422	18216	15667
50°	12344	15921	15634
55°	10344	11619	12163
60°	9410	10489	7040
65°	8816	9286	7523
70°	8114	8798	8051
75°	7622	8253	8198
80°	7111	7805	8786
85°	6107	6514	9363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18216 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.2	4.5
10°-20°	1810.8	12.7
20°-30°	2639.1	18.5
30°-40°	3019.1	21.2
40°-50°	2582.7	18.1
50°-60°	1703.1	11.9
60°-70°	1029.7	7.2
70°-80°	629.9	4.4
80°-90°	194.5	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5097.0	35.8
0°-40°	8116.1	56.9
0°-60°	12401.9	87.0
0°-90°	14256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6811	6811	6811	6811	6811	
5°	6867	6861	6813	6799	6809	643
15°	6166	6238	6318	6722	6668	1734
25°	5236	5316	5690	6176	6342	2395
35°	4136	4344	4674	5408	5784	2577
45°	2874	3096	3630	3392	3122	2200
55°	1672	1766	1878	2226	1966	1521
65°	1050	1076	1106	988	896	1038
75°	556	570	602	630	598	587
85°	150	148	160	190	230	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6810.6	6810.6	6810.6	6810.6	6810.6
2.5°	6876.6	6856.6	6774.5	6852.6	6782.5
5°	6866.6	6860.6	6812.6	6798.6	6808.6
7.5°	6734.5	6748.5	6740.5	6890.6	6814.6
10°	6520.5	6548.5	6648.5	6858.6	6794.6
12.5°	6352.5	6374.5	6508.5	6820.6	6670.5
15°	6166.5	6238.5	6318.5	6722.5	6668.5
17.5°	5966.5	6034.5	6224.5	6590.5	6584.5
20°	5746.5	5872.5	6078.5	6418.5	6552.5
22.5°	5448.4	5618.5	5908.5	6340.5	6366.5
25°	5236.4	5316.4	5690.5	6176.5	6342.5
27.5°	4914.4	5066.4	5448.4	5940.5	6214.5
30°	4702.4	4828.4	5210.4	5802.5	5998.5
32.5°	4436.4	4586.4	4928.4	5652.5	5888.5
35°	4136.3	4344.4	4674.4	5408.4	5784.5
37.5°	3820.3	4026.3	4416.4	5206.4	5490.4
40°	3514.3	3690.3	4190.3	4964.4	5158.4
42.5°	3200.3	3390.3	3932.3	4486.4	3880.3
45°	2874.2	3096.3	3630.3	3392.3	3122.3
47.5°	2488.2	2760.2	3296.3	2726.2	2958.2
50°	2236.2	2384.2	2884.2	2570.2	2832.2
52.5°	1902.2	2102.2	2316.2	2400.2	2676.2
55°	1672.1	1766.1	1878.2	2226.2	1966.2
57.5°	1460.1	1544.1	1674.1	1570.1	1048.1
60°	1326.1	1364.1	1478.1	1122.1	992.1
62.5°	1174.1	1212.1	1296.1	1048.1	952.1
65°	1050.1	1076.1	1106.1	988.1	896.1
67.5°	918.1	932.1	964.1	912.1	842.1
70°	782.1	802.1	848.1	834.1	776.1
72.5°	662.1	680.1	720.1	740.1	686.1
75°	556.0	570.0	602.0	630.1	598.0
77.5°	442.0	456.0	498.0	528.0	514.0
80°	348.0	350.0	382.0	412.0	430.0
82.5°	244.0	248.0	272.0	304.0	340.0
85°	150.0	148.0	160.0	190.0	230.0
87.5°	58.0	56.0	66.0	80.0	118.0
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.89	20.37	19.26	20.68	21.00	18.57	20.05	18.93	20.36	20.68
	3H	20.45	21.78	20.83	22.10	22.47	20.19	21.51	20.57	21.84	22.20
	4H	21.05	22.29	21.45	22.64	23.02	20.93	22.18	21.33	22.52	22.90
	6H	21.51	22.65	21.92	23.02	23.41	21.60	22.75	22.02	23.12	23.51
	8H	21.66	22.75	22.09	23.14	23.54	21.88	22.97	22.31	23.36	23.76
	12H	21.76	22.80	22.19	23.18	23.61	22.10	23.14	22.53	23.53	23.96
4H	2H	19.48	20.72	19.88	21.07	21.45	19.23	20.47	19.63	20.82	21.20
	3H	21.27	22.30	21.68	22.70	23.10	21.11	22.14	21.53	22.54	22.94
	4H	22.00	22.93	22.43	23.34	23.78	22.01	22.94	22.44	23.35	23.79
	6H	22.58	23.39	23.04	23.83	24.29	22.82	23.62	23.28	24.07	24.53
	8H	22.78	23.53	23.24	23.98	24.45	23.15	23.90	23.61	24.34	24.81
	12H	22.92	23.59	23.40	24.07	24.54	23.42	24.09	23.90	24.57	25.04
8H	4H	22.32	23.07	22.79	23.52	23.99	22.33	23.08	22.80	23.53	24.00
	6H	23.03	23.66	23.53	24.15	24.63	23.28	23.90	23.78	24.40	24.87
	8H	23.30	23.86	23.82	24.37	24.86	23.70	24.26	24.21	24.77	25.26
	12H	23.51	24.01	24.02	24.50	25.07	24.07	24.56	24.58	25.06	25.62
12H	4H	22.36	23.03	22.84	23.51	23.98	22.36	23.03	22.84	23.51	23.98
	6H	23.10	23.66	23.62	24.17	24.66	23.33	23.90	23.85	24.41	24.89
	8H	23.43	23.93	23.94	24.42	24.99	23.81	24.31	24.32	24.80	25.37